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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 4025		
10/752,256	01/06/2004	Mathieu Gagne	E30-029CON2			
34021 GEORGE A. I	7590 01/09/2007 HERBSTER		EXAM	EXAMINER		
40 BEACH ST	REET		RADTKE, MARK A			
SUITE 303 MANCHESTE	CR. MA 01944	•	ART UNIT	PAPER NUMBER		
	,		2165			
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE			
3 MONTHS		01/09/2007	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application	n No	Applicant(s)				
Office Action Summary		10/752,25		GAGNE ET AL.				
		Examiner	<del>-</del>	Art Unit				
		Mark A. X	Dodtko					
	The MAILING DATE of this communication a			2165 correspondence ac	ddress			
Period fo	or Reply	- <b>p</b>						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REI CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. o period for reply is specified above, the maximum statutory peri re to reply within the set or extended period for reply will, by sta reply received by the Office later than three months after the ma ed patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH R 1.136(a). In no eve iod will apply and will atute, cause the appli	IS COMMUNICATION nt, however, may a reply be tim I expire SIX (6) MONTHS from cation to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).				
Status	, ,							
1)	Responsive to communication(s) filed on 25	5 October 2006						
	Responsive to communication(s) filed on <u>25 October 2006</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٧/ ــــ	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
<b>.</b>	·							
Dispositi 	on of Claims							
•	☑ Claim(s) <u>24-41</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
·	5) Claim(s) is/are allowed.							
6)⊠	)⊠ Claim(s) <u>24-41</u> is/are rejected.							
7)	Claim(s) is/are objected to:							
8)□	Claim(s) are subject to restriction and	d/or election re	equirement.					
Applicati	ion Papers							
9)[7]	The specification is objected to by the Exam	iner.						
•	The drawing(s) filed on is/are: a) _ a		objected to by the I	Examiner.				
,	Applicant may not request that any objection to t	•	· ·					
	Replacement drawing sheet(s) including the corr	• • •			FR 1.121(d).			
11)	The oath or declaration is objected to by the	•	• , ,		• •			
Priority :	under 35 U.S.C. § 119							
	<u>-</u>	,		) (-I) (D				
,	Acknowledgment is made of a claim for fore	ign priority und	ler 35 U.S.C. § 119(a)	)-(a) or (t).	· .			
a)	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority docume							
	2. Certified copies of the priority docume		• •					
	3. Copies of the certified copies of the p	-		ed in this Nationa	l Stage			
	application from the International Bur	•						
* 5	See the attached detailed Office action for a l	list of the certif	ied copies not receive	ed.				
Attachmen	• •							
	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)	•	4) Interview Summary Paper No(s)/Mail Da					
	mation Disclosure Statement(s) (PTO/SB/08)		5) Notice of Informal P					
	r No(s)/Mail Date		6) Other:					

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**DETAILED ACTION** 

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Remarks

1. In response to communications filed on 25 October 2006, claim(s) 24-25, 29-31,

35-37 and 41 is/are amended per Applicant's request. Therefore, claims 24-41 are

presently pending in the application, of which, claim(s) 24, 30 and 36 is/are presented in

independent form.

2. In response to Applicant's amendments, the claim objections and rejections

under 35 U.S.C. 11, second paragraph, have been withdrawn.

3. The Declaration of Douglas LeCrone filed 19 October 2006 under 37 C.F.R.

1.131 has been fully considered but has been deemed ineffective to overcome the prior

art rejection under 35 U.S.C. 102(e). The affidavit is ineffective because it lacks factual

evidence or documents to support a January 6, 1999 date of conception. Furthermore,

the affidavit fails to present factual evidence of diligence in the time between conception

and the filing of the application.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent

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granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 24-41 are rejected under 35 U.S.C. 102(e) as being anticipated by LeCrone (U.S. Patent 6,529,944).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

As to claim 24, <u>LeCrone</u> teaches in a data processing network having a production site (see figure 1, "Local"), first (see figure 1, "Campus") and second (see figure 1, "Extended") remote sites, a first communications link between the production and first remote sites (see figure 1, "RA1") and a second communications link between the first and second remote sites (see figure 1, "RA0") wherein the production site includes a magnetic disk storage device and a host adapted to update the data in the magnetic disk storage device, wherein the first remote site includes a first data store that mirrors the data in the magnetic disk storage device (see figure 1, elements R1B and R2 and see column 5, lines 38-43), a second data store that operates in a first mode to mirror the data on the first data store (see figure 1, elements R1BCV and R2 and see column 5, lines 43-49) and a copy program (see Abstract), and wherein the

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second remote site includes another data store, the data processing network being characterized by a method for providing a backup of the data at the production site in each of the first and second remote sites (see Abstract) by:

- A) establishing in the first remote site first and second tables for recording the occurrence of any change in the data in first data store and a third table for recording the need for any transfer of data from the second data store to the data store in the second remote site (see column 5, lines 38-49 and see column 9, line 66 column 10, line 11);
- B) initially establishing a state during a second operating mode whereby the data in the data store in the second remote site corresponds to the data in the first data store at a point in time (see column 5, lines 38-43);
- C) reestablishing the first operating mode for the second data store by combining information in the first and third tables to identify the changes made to the first data store (see column 6, line 54 column 7, line 2) while the second data store was operating in a second operating mode (see column 6, line 57, where "second operating mode" is read on "not ready"); and
- D) differentially splitting, after synchronism is achieved between the first and second data stores, the second data store from the first data store by:
  - i) copying the information in the second table to the third table;
  - ii) clearing the second table; and
- iii) enabling the copy program to transfer the changed data in the second data store in the second remote site, whereby the data store in the second remote site

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is brought into synchronism with the data that existed in the first data store at the time of said differential splitting (see column 11, lines 26-30).

As to claims 25, 31 and 37, <u>LeCrone</u> teaches wherein said initial establishment includes:

- i) establishing a first operating mode for the second data store whereby the second data store is brought into synchronism with the first data store (see column 6, line 54 - column 7, line 2); and
- ii) splitting to shift the second data store to a second operating mode after synchronism is achieved during which:
- a) the copy program copies data from the second data store to the data store in the second remote site in response to the information in the third table; and
- b) the first and second tables are updated each time the data in the first data store is altered (see column 7, lines 3-18).

As to claims 26, 32 and 38, LeCrone teaches wherein the host generates a first command to initiate said reestablishment step and a second command to initiate said differential splitting and wherein the method includes conveying the first and second commands to the first remote site on an iterative basis for effecting a cascading session during which the first and second operating modes are processed on a mutually exclusive basis (see column 7, lines 19-36 and column 10, lines 30-34).

As to claims 27, 33 and 39, <u>LeCrone</u> teaches wherein the magnetic disk storage devices have data storage tracks and wherein said copying occurs on a track-by-track basis, each of the first, second and third tables being formed as track tables with one bit position corresponding to one track (see column 7, lines 36-43).

As to claims 28, 34 and 40, <u>LeCrone</u> teaches wherein the first data store includes storage for diverse information about each track, said method including the step of copying the diverse information to the second table (see column 7, lines 44-50).

As to claims 29, 35 and 41, <u>LeCrone</u> teaches wherein the host generates a first command to initiate said establishment step (see column 5, line 38, "commands can be issued from host"), a second commend to initiate said splitting operation (see column 5, lines 43-45) and then issues third and fourth commands iteratively and on a mutually exclusive basis, the third command initiating the reestablishment step and the fourth command initiating differential splitting whereby the commands effect a cascading session (see Examiners comments regarding claims 24 and 26).

As to claim 30, <u>LeCrone</u> teaches a data processing network (see figure 1).

For the remaining steps of this claim applicant(s) is/are directed to the remarks and discussions made in claim 24 above.

As to claim 36, <u>LeCrone</u> teaches a data processing network including a program (see figure 1).

For the remaining steps of this claim applicant(s) is/are directed to the remarks and discussions made in claim 24 above.

## Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications should be directed to the examiner, Mark A. Radtke. The examiner's telephone number is (571) 272-7163, and the examiner can normally be reached between 9 AM and 5 PM, Monday through Friday.

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If attempts to contact the examiner are unsuccessful, the examiner's supervisor, Jeffrey Gaffin, can be reached at (571) 272-4146.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Customer Service at (800) 786-9199.

maxr

29 December 2006

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